1 Tests

For the UI, we wrote the following seven tests:

- numPlayers tests
 - testGoodPlayerCount, which tests that the UI accepts a legitimate number of players [one through twenty]
 - testBadPlayerCount, which tests that the UI rejects a bad number of players [negative one through negative twenty]
- Cube file parser tests
 - testNoCubeFile, which tests than an exception is thrown is a nonexistent file is passed to GameManager.newGame
 - testEmptyCubeFile, which tests for exceptions thrown for an empty cube file unless the game size is zero
 - testBadCubeCount, which tests for exceptions thrown for cube files with too few and too many cubes respectively [this is technically a design choice, to be fair, but it's better not to silently fail or truncate/extend the cubes file in our opinion]
 - testBadFaceCount, which tests for exceptions thrown for cube files in which cubes have too many or too few cases [also a design choice, but see what we said above]
 - testGoodCubeCount, which tests that good cube files are accepted

For the dictionary, wrote the following twenty-two tests:

- ContainsTests, which test the contains method, and IsPrefixTests, which test the isPrefix method [there are versions of each test listed for both contains and isPrefix]:
 - testShortDict, which tests whether or not a GameDictionary object that has loaded our custom four-word dictionary short.txt contains all words/all possible prefixes
 - testNormalDict, which does the same for words.txt
 - testShortDictFail, which tests that contains/isPrefix returns false for words/prefixes that should not be in the dictionary
 - testEdgeCases, which tests that certain special strings are not words/prefixes in the dictionary
- \bullet LoadDictionaryTests, which test the loadDictionary method:
 - testNoFile, which tests that loadDictionary fails gracefully by throwing an IOException when given a nonexistent file
 - testEmptyDictionary, which tests that a dictionary that is given an empty input file behaves as expected

- testNewLineDictionary, which tests that the loadDictionary does not interpret trailing newlines in the input file as words
- testSpaceDictionary, which does the same for spaces
- testInvalidDictionary, which tests that a input file containing various invalid words [special characters, spaces, numbers, etc] is handled as expected [none of the invalid words are loaded into the dictionary but all the valid words are]
- testLowercase, which tests that when loading our valid input file short.txt, no exceptions are thrown and the resulting dictionary contains all the words it should and none it shouldn't [the four-word dictionary]
- testNormalDictionary, which does the same for your words.txt
- IteratorTests, which test the iterator returned by the iterator method:
 - testEmptyHasNext, which tests that an empty dictionary's iterator's hasNext method always returns false
 - testEmptyNext, which tests that an empty dictionary's iterator's next method always throws a NoSuchElementException
 - testNormalHasNext, which tests that the hasNext method of an iterator for a dictionary with words.txt loaded into it returns true
 - testNormalNext, which does the same with the method by checking if "a" or "A" is returned
 - testCount, which checks that the number of elements retrieved by iterating through the iterator of a dictionary with short.txt loaded into it is correct [should be four]
 - testShortDict, which checks that the aforementioned dictionary contains all the words it should and none that it shouldn't
 - testNormalDict, which does the same as the above but with words.txt instead of short.txt

2 Team 15

Team fifteen failed fifteen of our twenty-nine tests. The specific tests failed can be found here.